



DNA Dynamics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Since the identification of the double helix structure of DNA in 1953, significant progress has been made in understanding how this fascinating molecule is able to both preserve and transmit genetic information. Sophisticated DNA replication mechanisms ensure the correct duplication of genetic information and equally specialized repair mechanisms help to address and resolve the insults suffered during normal cellular metabolism.

Beyond this remarkable stability, the double helix of DNA is an extremely dynamic molecule and it actively contributes to its multiple functions. Dynamic interaction between proteins and DNA regulate important processes such as DNA transcription and repair.

The complex structure of chromatin in eukaryotic organisms is also a further contribution to the dynamism of DNA and actively collaborates with its primary functions.

The intent of this special issue of International Journal of Molecular Sciences is to welcome papers and reviews that analyze these aspects of DNA dynamics also taking advantage of recent technologies that allow single cell analysis.

Prof. Dr. Federico Lazzaro
Guest Editor



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Message from the Editor-in-Chief

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